

## ABSTRACT

The current invention discloses a system for the construction of band-pass filters, used for the alteration of the dimensions of half-tone images. The method may be used for the spatial interpolation of a video sequence and a single image. The method works equally well for different classes of images of high-quality scaled images that do. In the resulting images a gradual effect on the contours or other defects associated with previous methods is absent. The method includes two algorithms. The first permits the lengthwise and/or width-wise enlargement of the image an even number of times. The second permits the reduction of the image by a fraction. The given method provides good quality when scaling of a video sequence in real time.